

CLIMATOLOGICAL DATA FOR JANUARY, 1911.

DISTRICT No. 7, LOWER MISSISSIPPI VALLEY.

ISAAC M. CLINE, District Editor.

GENERAL SUMMARY.

Temperature conditions were generally moderate on the first day of the month, but on the 2d a severe cold wave overspread the district, which continued until the 4th. During this cold period, temperatures of 20° below zero, or lower, were recorded in Oklahoma and the Kansas and New Mexico areas, and 33° below zero was recorded in the Colorado area. Temperatures were below 10° in northern Louisiana, and they were as low as 26° on the Gulf Coast. Seasonable temperatures were general from the 6th to 16th. From the 17th to 31st the temperature was much above the normal, maximum temperatures of 70° or higher being recorded in all parts of the district.

Periods of precipitation were fairly well defined, there being four, as follows: 1st to 3d; 10th to 14th; 16th to 22d; 24th to 30th. The precipitation was generally light, being below the normal, except in a few localities in Louisiana and the Mississippi area. Over Oklahoma, western Arkansas, and the Kansas, Texas, Colorado, and New Mexico areas, the amounts of precipitation were small, and many localities received no rain. In those sections the drought was severe at the close of the month, and farming operations were being materially interfered with.

TEMPERATURE.

Mean temperatures for the month were above the normal, the departures ranging generally from $+4.1^{\circ}$ to $+11.7^{\circ}$. The maximum temperatures reached or exceeded 80° in all States and areas, except in the Tennessee area, and 90° or higher was recorded in parts of Oklahoma, Louisiana, and the Colorado and Texas areas. The highest recorded was 95° , at Hoehne, Colo. Minimum temperatures for the month were generally below freezing, a minimum of 26° being recorded at Burrwood, La., on the Gulf Coast. In the northern part of Louisiana and in central Mississippi minimum temperatures were below 10° . Over the remainder of the district, monthly minimums were below zero, and temperatures of 10° below zero or lower were recorded during the first four days of the month in Oklahoma, and the Tennessee, Kansas, Texas, Colorado, and New Mexico areas. The lowest temperature recorded during the month was -33° at Monument, Colo., and -23° was recorded at Abbott and Logan, N. Mex. As a whole, temperature conditions during the month were moderate, and outdoor occupations were not interfered with to any appreciable extent by severe cold.

Monthly mean temperatures and departures from the normal for the various States and parts of States are reported as follows: Colorado area, 35.1° , $+7.2^{\circ}$; New Mexico area, 39.8° , $+5.4^{\circ}$; Texas area, 46.2° , $+7.8^{\circ}$; Kansas area, 36.0° , $+4.4^{\circ}$; Oklahoma, 43.2° , $+4.7^{\circ}$; Missouri area, 40.4° , $+5.7^{\circ}$; Tennessee area, 43.9° , $+5.1^{\circ}$; Arkansas, 47.6° , $+7.1^{\circ}$; Mississippi, 51.8° , $+6.3^{\circ}$; Louisiana, 58.8° , $+7.8^{\circ}$.

PRECIPITATION BY DRAINAGE AREAS.

Arkansas River and tributaries.—Very little precipitation occurred over this drainage basin, the amounts being less than one-fifth of the normal amount over some localities. The amounts of precipitation and departures from the normal for the several portions of this area differ materially. Over the headwaters of the Arkansas River, in Colorado, the average from 33 stations was 0.52 inch, being about 0.2 inch below the normal. The precipitation was exceptionally light over those portions of the Arkansas Valley proper that lie in Kansas and Oklahoma and also over the Cimarron and Canadian Valleys. The average from 40 stations in that portion of the Arkansas Valley proper lying in Kansas and Oklahoma was 0.20 inch, being about 0.7 inch below the normal. The average from 18 stations in the Cimarron Valley was 0.12 inch, and the deficiency amounted to about 0.7 inch. Over the Canadian Valley the precipitation was uniformly light, the average from 63 stations was 0.14 inch; the deficiency over those portions of this valley that lie in New Mexico and Texas was about 0.2 inch, and over the portion that lies in Oklahoma about 1.1 inch. The amounts from 10 stations in the Verdigris Valley averaged 0.31 inch, being about 1.0 below the normal, and the average from 18 stations in the Neosho Valley was 0.28 inch, the deficiency being about 1.3 inch. Over the portion of the Arkansas Valley proper lying below the Oklahoma-Arkansas line, the precipitation was unevenly distributed, but generally light, the average amount from 15 stations being 0.88 inch, about 2.8 inches below the normal.

Red River and tributaries.—There was less than the normal precipitation throughout this drainage area, except at a few scattered stations in Louisiana. Over those portions that lie in New Mexico, Texas, and Oklahoma, the average from 41 stations was 0.24 inch, being about 1.2 inches below the normal. Below the Texas-Arkansas line the precipitation was heavier, the average from 16 stations being 1.94 inches, about 1.7 inches below the normal.

Mississippi south of St. Louis and small tributaries.—Less than the normal amount of precipitation occurred over this drainage area, except in the extreme eastern portion, where there was an excess at a few stations. In the immediate Mississippi Valley the amounts from 42 stations averaged 2.01 inches and the deficiency was about 2.2 inches. The precipitation averaged about 0.50 inch over the Valley of the Meramec and the deficiency was about 2 inches. The average from 18 stations in the White River Valley was 0.92 inch, being about 2.8 inches below the normal. The precipitation was unevenly distributed over the Yazoo Valley, the average from 31 stations being 3.30 inches, about 1.3 inch below the normal. Heavy precipitation occurred over the greater portion of the Valley of the Big Black, the average being 5.65 inches, about 0.7 inch above the normal. The precipitation was light over the headwaters of the Ouachita

in Arkansas, but was somewhat heavier in Louisiana. The average from 19 stations was 1.73 inches, being about 3.3 inches below the normal.

Louisiana coastal plain.—Heavy precipitation occurred at a few stations in this area, but with some exceptions the amounts were below the normal. The average from 28 stations was 3.05 inches, being about 1.2 inches below the normal.

Monthly precipitation and departures from the normal for the various States and parts of States are reported as follows: Colorado area, 0.50, -0.28; New Mexico area, 0.14, -0.18; Texas area, 0.21, -1.43; Kansas area, 0.20, -0.65; Oklahoma, 0.21, -1.04; Missouri area, 0.44, -2.33; Tennessee area, 2.47, -2.48; Arkansas, 1.02, -3.11; Mississippi area, 3.67, -0.85; Louisiana, 2.98, -1.39.

SNOWFALL.

Snow occurred generally north of the thirtieth parallel, except that there was none in many localities in Louisiana, Oklahoma, Arkansas, and the Missouri and Texas areas. The amounts were small, as a rule, ranging from a trace to 3 inches, generally, except in the mountainous portions of the Colorado and New Mexico areas, where they ranged from a trace to 34 inches. In Colorado, only one station in the Arkansas Basin, Leadville, reported more than the normal snowfall during the month, while at stations on the watersheds of the southwestern portion of the basin a marked deficiency was general. The average depth as shown on snow scales in the Arkansas Basin was 5 inches less than the normal. Considerable drifting occurred, and although some very low night temperatures were recorded, high day temperatures were general, facilitating the settling and solidifying of the drifts. Rain, an unusual thing in Colorado in January even at low altitudes, was reported from a number of high-level stations. In New Mexico, over the Canadian watershed, very light precipitation occurred, and the depth of snow stored is small. Only the highest parts of the main range have snow and the depth there is very small. At the close of the month there was no snow on the ground at ordinary elevations in this district, and the prospects for irrigation water for the coming season in Colorado and New Mexico are very poor. The average snowfall (in inches) for the various States and areas, derived from the records of such stations as reported snow, is as follows: Colorado area (35 stations), 6.7; New Mexico area (34 stations), 1.5; Texas area (7 stations), 0.2; Kansas area (50 stations), 0.1; Oklahoma (10 stations), trace; Missouri area (8 stations), 0.1; Tennessee area (10 stations), 2.2; Arkansas (28 stations), 0.3; Mississippi area (40 stations), 1.5; Louisiana (20 stations), 0.9.

RIVERS.

In Oklahoma there was no material change in the condition of the rivers and tributaries during the month.

Low water continued in the Red River and its tributaries.

No changes occurred in the Arkansas and navigation was suspended during the month.

Low stages continued in the upper White, but the lower White ranged from 10.7 feet to 17.1 feet and was navigable.

Only slight changes occurred in the Ouachita and low stages prevailed throughout the month.

Below St. Louis the Mississippi rose at Memphis from the 1st until the 13th; this rise passed into the Gulf on the 20th, and was followed by a slight fall for a few days. The river was rising at all stations at the close of the month.

NOTES.

Tulia, Tex.—The weather has been extremely warm and very dry. Seven-tenths of the winter wheat has not sprouted and much that sprouted is dead.

Winfield, Tex.—Since the freeze in the early part of the month the weather has been warm and spring like. Buds on the fruit trees are swelling.

Oklahoma (J. Pemberton Slaughter, Section Director).—The weather during the month was notably warm and dry. The mean temperature just equaled the high record of January, 1907. The highest temperature ever recorded in Oklahoma during January occurred over the greater part of the State on the 31st. The precipitation averaged less than 20 per cent of the normal and was the lightest of record for January. As a result of the long-continued drought, copious rains are needed to put the soil in condition for spring planting. The scarcity of water continues in many sections.

Missouri (George Reeder, Section Director).—As a result of the mild weather, early varieties of shrubs were budding and leafing and the soft maple was in bloom in the extreme southeastern counties at the close of the month. Peach buds have been forced to some extent, but fruit, generally, is reported unimpaired. Weather conditions were generally favorable for agricultural, commercial, and transportation interests.

Arkansas (H. F. Alciatore, Section Director).—This was the driest and with one exception (1907) the warmest January experienced during the last 21 years. The unseasonably high temperature during the last decade was unfavorable to agricultural interests of the northwestern part of the State.

TABLE 1.—Climatological data for January, 1911. District No. 7, lower Mississippi Valley.

Stations.	Counties.	Elevation, feet.	Le th gth of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.							Sky.				Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.					
<i>Colorado.</i>																							
Blaine.	Baca.	3,935	19	37.2	+ 4.6	78	31	-17	3	54	0.05	- 0.25	0.05	1.0	1	8	15	8	s.	M. M. Myers.			
Buena Vista.	Chaffee.	7,955	11	31.6	-	58	20	-16	2	43	0.06	-	0.06	1.5	1	20	9	2	e.	C. A. Short.			
Calhan.	El Paso.	6,700	4	35.2	-	63	30	-25	2	45	0.15	-	0.15	2.0	1	25	5	1	nw.	U. S. Rice.			
Canon City.	Fremont.	5,343	23	40.2	+ 5.7	70	30	-8	3	56	T.	- 0.41	T.	T.	0	25	6	0	n.	U. S. Weather Bureau.			
Colorado Springs.	El Paso.	6,098	31	37.0	+ 9.0	67	30	-16	3	46	T.	- 0.20	T.	T.	0	22	6	3	sw.	Colorado College.			
Cripple Creek.	Teller.	9,396	10	-	-	-	-	-	-	-	T.	-	T.	T.	0	-	-	-	f.	F. G. Willis.			
Cuchara Camps.	Huerfano.	8,200	1	-	-	-	-	-	-	-	0.28	-	0.19	3.0	3	28	2	1	sw.	George A. Mayes.			
Eads.	Kiowa.	4,209	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	w.	W. H. Lauke.			
Fairview.	Custer.	9,500	2	-	-	-	-	-	-	-	0.59	-	0.31	7.4	2	14	16	1	e.	Elizabeth L. Gray.			
Fremont Exp. Station.	El Paso.	8,850	1	31.2	-	56	31	-22	2	38	0.06	-	0.05	1.2	2	28	2	1	nw.	U. S. Forest Service.			
Garfield.	Chaffee.	9,510	1	-	-	-	-	-	-	-	1.74	-	0.99	14.5	6	20	7	4	w.	Lloyd N. Felton.			
Hamps.	Elbert.	5,400	18	34.0	+ 6.3	69	20	-21	3	57	0.12	- 0.11	0.12	1.5	1	22	6	3	sw.	W. Hamp.			
Hermit Lake.	Custer.	10,000	1	-	-	-	-	-	-	-	2.97	-	1.64	34.0	6	8	17	6	sw.	John E. Graham.			
Hoehne.	Las Animas.	5,700	19	42.3	+ 11.9	95	31	-30	3	72	0.22	- 0.09	0.12	3.0	2	16	14	1	w.	S. W. De Busk.			
Holly.	Prowers.	3,380	1	36.4	-	76	10†	-15	3	58	0.03	- 0.17	0.03	0.5	1	21	10	0	se.	Holy Sugar Co.			
Lake Moraine.	El Paso.	10,265	17	27.6	+ 5.6	51	31	-28	2	46	0.19	- 0.65	0.14	3.8	2	10	17	4	sw.	Clyde C. McReynolds.			
Lamar.	Prowers.	3,592	21	37.1	+ 5.3	76	20	-15	3	51	T.	- 0.23	T.	T.	0	23	5	3	sw.	J. T. Lawless.			
Las Animas.	Bent.	3,899	43	36.8	+ 10.1	74	20†	-14	3	71	0.00	- 0.21	0.00	0.0	0	14	8	9	e.	F. M. Tague.			
La Veta Pass.	Costilla.	9,000	1	-	-	-	-	-	-	-	0.09	-	0.06	2.1	2	13	16	2	w.	Marine D. Wright.			
Leadville.	Lake.	10,245	15	22.0	+ 5.2	45	25	-15	2	32	1.86	+ 0.80	0.56	23.6	9	10	12	9	n.	U. S. Weather Bureau.			
Limon (near).	Elbert.	5,360	4	34.0	-	68	31	-21	3	57	T.	-	T.	T.	0	20	6	5	s.	F. L. Palmer.			
Madrid.	Las Animas.	1	-	-	-	-	-	-	-	-	0.06	-	0.06	1.5	1	-	-	-	-	Thos. Sawers.			
Marshall Pass.	Saguache.	10,846	8	-	-	-	-	-	-	-	1.05	-	0.28	8.0	6	8	17	6	w.	William D. Lillard.			
Monument.	El Paso.	7,200	-	34.2	-	63	30	-33	2	40	0.57	-	0.50	5.5	2	18	10	3	nw.	U. S. Forest Service.			
North Lake.	Las Animas.	8,700	1	-	-	-	-	-	-	-	0.38	-	0.32	1.0	2	22	7	2	nw.	James W. Ingmire.			
Pueblo.	Pueblo.	4,734	23	39.1	+ 10.0	73	31	-12	3	49	0.04	- 0.36	0.04	1.8	1	18	10	3	nw.	U. S. Weather Bureau.			
Rocky Ford (near).	Otero.	4,177	22	38.0	+ 8.5	77	29	-15	3	58	T.	- 0.31	T.	T.	0	28	1	2	w.	P. K. Blinn.			
St. Elmo.	Chaffee.	9,500	1	-	-	-	-	-	-	-	2.08	-	0.55	24.7	9	14	10	7	sw.	Daniel Clark.			
Salida.	do.	7,035	13	36.4	+ 7.8	60	31	-12	2	40	0.05	- 0.67	0.05	1.7	1	26	4	1	w.	M. D. L. Buell.			
Santa Clara.	Huerfano.	8,250	16	33.6	+ 3.0	63	30	-20	3	55	0.30	- 0.95	0.30	4.0	1	10	20	1	sw.	Lincoln G. Morris.			
Sheridan Lake.	Kiowa.	4,065	10	38.6	-	-	-	-	-	-	0.03	-	0.03	1.0	1	16	14	1	-	Howard Gamble.			
Stonewall.	Las Animas.	8,000	5	-	-	-	-	-	-	-	0.28	- 0.26	0.40	1.5	1	28	3	0	e.	J. W. Shouse.			
Trinidad.	do.	5,994	15	33.1	-	56	31	-15	3	50	T.	-	T.	T.	0	29	2	0	sw.	Mrs. Mattie H. Butler.			
Victor (near).	Teller.	10,100	7	33.1	-	56	31	-15	3	50	T.	-	0.00	0.0	0	19	10	2	sw.	Fred Jones.			
Vilas.	Baca.	3,935	20	-	-	-	-	-	-	-	0.10	- 0.20	0.00	2.0	1	8	14	9	sw.	Carrie Konkel.			
Westcliffe.	Custer.	7,864	17	33.4	+ 8.3	64	31	-14	2	45	0.10	- 0.56	0.10	2.0	1	21	19	10	w.	Zack Jordan.			
Winfield.	Chaffee.	9,765	1	-	-	-	-	-	-	-	0.94	-	0.22	21.3	10	2	19	10	w.	John G. Payne.			
Woodman Sanatorium.	El Paso.	-	-	37.4	-	65	30†	-16	2	50	0.09	-	0.05	0.9	3	11	11	9	w.	G. F. Snyder.			
Wortman.	Lake.	11,250	10	-	-	-	-	-	-	-	3.45	-	1.00	40.4	7	2	22	7	sw.	George C. Wortman.			
<i>New Mexico.</i>																							
Abbott.	Mora.	5,771	2	39.2	-	74	31	-23	3	56	0.16	-	0.16	2.0	1	16	8	7	w.	Agt. E. P. & S. W. R. R.			
Albert.	Union.	4,700	21	43.6	+ 5.0	78	30	-10	3	42	0.20	- 0.05	0.20	2.5	2	24	1	6	w.	Andrew Knell.			
Arch (near).	Roosevelt.	4,634	2	37.1	-	72	15	-20	3	53	0.15	-	0.15	0.0	1	15	5	11	sw.	Wm. A. Elliott.			
Aurora.	Colfax.	8,849	2	-	-	-	-	-	-	-	0.49	-	0.19	6.0	6	1	29	1	nw.	Miss Juanita Lucero.			
Bell Ranch.	San Miguel.	4,500	12	43.6	-	78	30	-16	3	51	0.13	- 0.16	0.10	1.3	2	19	6	6	sw.	C. M. O'Donel.			
Black Lake.	Colfax.	8,348	2	-	-	-	-	-	-	-	0.16	-	0.16	2.0	1	15	14	2	w.	Ralph T. Martinez.			
Cabeza.	San Miguel.	5,406	2	-	-	-	-	-	-	-	0.15	-	0.15	3.0	1	3	22	6	sw.	Agt. E. P. & S. W. R. R.			
Campana.	do.	4,493	2	-	-	-	-	-	-	-	0.20	-	0.13	3.0	2	9	18	4	w.	Do.			
Cimarron (near).	Mora.	9,000	20	-	-	-	-	-	-	-	0.03	-	0.03	1.0	1	16	14	1	sw.	Alfredo Lucero.			
Colfax.	do.	6,385	7	36.6	-	69	30	-20	3	50	0.02	-	0.02	0.5	1	15	8	8	w.	Wm. French.			
Clayton.	Union.	5,178	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	sw.	Dr. W. W. Chilton.				
Clivous.	Curry.	4,129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	sw.	C. R. Worrall.				
Cuervo.	Guadalupe.	4,849	2	46.1	-	76	30	-8	3	42	0.08	-	0.04	T.	2	13	14	4	w.	Agt. E. P. & S. W. R. R.			
Dawson.	Colfax.	6,396	2	-	-	-	-	-	-	-	0.05	-	T.	T.	1	11	17	3	sw.	Geo. E. Lambert.			
Dorsey (near).	do.	6,000	8	37.4	-	70	30	-22	3	51	0.10	-	0.10	1.2	1	21	8	2	sw.	Miss Mabel Carrington.			
Elizabethtown.	do.	8,465	5	28.3	-	56	19	-22	2	51	1.03	-	0.85	7.0	4	13	14	4	nw.	David Rope.			
Folsom.	Union.	6,399	15	37.0	+ 6.0	71	30	-19	3	53	0.20	- 0.23	0.10	2.0	2	18	10	3	sw.	Jas. B. Dickson.			
Fort Union.	Mora.	6,835	24	37.3	+ 5.1	67	31	-19	3	53	0.05	- 0.40	0.05	T.	1	26	1	4	w.	A. J. Mulcohe, jr.			
Hayden.	Union.	4,444	1	42.6	-	75	30†	-13	2	63	0.14	-	0.14	2.0	1	13	15	13	sw.	Dr. M. C. Needham.			
Johnson's Park.	Colfax.	6,722	2	-	-	-	-	-	-	-	0.16	-	0.16	2.0	1	6	24	1	sw.	Jas. B. Dickson.			
Kappus.	Quay.	4,000	-	-	-	-	-	-	-	-	0.18	-	0.18	3.0	1	22	6	3	sw.	Anthony Kappus.			
Lake Alice.	Quay.	3,851	5	44.8	-	78	31	-23	3	49	0.21	-	0.21	1.5	1	22	6	3	sw.	John B. Reneau.			
Logan.	Quay.	6,789	6	-	-	-	-	-	-	-	0.06	-	0.06	1.0	1	25	4	2	w.	Wm. Frank, sr.			
Lykins (near).	Roosevelt.	5,000	1	-	-	-	-	-	-	-	0.13	-	0.10	1.2	1	29	10	2	sw.	J. G. Buchanan.			
Maxwell (near).	Colfax.	5,894	4	-	-	-	-	-	-	-	0.20	-	0.20	4.0	1	15	13	13	sw.	D. N. Jackson.			
Melrose.	Curry.	4,400	3	-	-	-	-	-	-	-	0.11	-	0.08	0.0	2	17	10	4	sw.	Dr. B. M. Porter.			
Miami Ranch.	Colfax.	6,000	3	38.4	-	67	30†	-18	3	50	0.08	-	0.08	1.0	1	19	11	1	w.	Farmers' D. Co.			
Montoya.	Quay.	4,335	2	-	-	-	-	-	-	-	0.01	-	0.01	0.0	1	25	4	2	w.	Agt. E. P. & S. W. R. R.			
Mount Dora (near).	Union.	5,600	6	-	-	-	-	-	-	-	0.03	-	0.03	0.5	1	14	8	9	sw.	Edward F. Grygla.			
Nara Visa.	Quay.	4,225	5	44.0	-	76	31	-13	3	43	0.0	-	0.06	0.8	1	23	0	8	sw.	Geo. Bringle.			
Optimo.	Mora.	6,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	sw.	K. O. Odell.				
Pasamonte.	Union.	6,660	15	38.6	+ 5.6	72	30	-14	3	47	0.10	- 0.08	0.10	2.0	1	24	3	4	w.	J. J. Heringa.			
Raton.	Colfax.	8,200	7	38.4	-	74	27	-15	2	50	0.11	-	0.06	1.0	3	7	23	1	sw.	Prof. R. C. Crum.			
Rociada.	San Miguel.	4,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	sw.	José A. Baca.				
Rosebud.	do.	5,884	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	sw.	H. A. Nachtrieb.				
Roy.	do.	4,200	4</																				

TABLE 1.—Climatological data for January, 1911. District No. 7—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.				Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.1 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Texas—Continued.																				
Dalhart §.	Dallam.	3,998	6	39.2	.....	80	31	-14	3†	59	0.00	.....	0.00	0.0	0	9	18	4	w.	F. L. Kennard.
Denison.	Grayson.	3	.....	.....	.....	.....	.....	.....	.....	.....	0.54	.....	0.52	0.0	2	5	6	20	s.	E. B. Wilson.
Finley.	Bowie.	1	.....	.....	.....	.....	.....	.....	.....	.....	0.22	.....	0.18	0.0	2	8	10	13	s.	Mrs. M. C. Myers.
Henrietta.	Clay.	915	19	46.0	+ 4.3	91	31	-2	3	48	0.33	- 0.86	0.21	0.0	2	12	11	8	s.	C. K. Brown.
Hereford.	Deaf Smith.	3,750	6	.....	.....	.....	.....	.....	.....	.....	0.88	.....	0.48	0.0	3	6	5	20	.....	A. C. Elliott.
Lewis Ferry.	Bowie.	2	.....	.....	.....	.....	.....	.....	.....	.....	0.88	.....	0.48	0.0	3	6	5	20	.....	P. G. Ruff.
Memphis.	Hall.	2,067	6	45.4	.....	79	30	-5	3	54	0.20	.....	0.20	T.	1	14	6	11	.....	Ft. W. & D. C. Ry.
Miami.	Roberts.	2,743	5	46.8	.....	83	31	-5	2	48	0.11	.....	0.09	0.2	2	19	7	5	s.	J. E. Kinney.
Moobeetie.	Wheeler.	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. A. Choate.
Nazareth.	Castro.	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Rev. P. A. Kaelin.
Ochiltree.	Ochiltree.	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. J. Allen.
Pampa.	Gray.	3,226	2	50.3	+ 5.2	90	31	3	4	45	0.30	- 1.77	0.10	0.0	6	10	2	19	s.	B. E. Finley.
Paris.	Lamar.	592	22	50.3	+ 5.2	90	31	3	4	45	0.30	- 1.77	0.10	0.0	6	10	2	19	s.	Robert A. Miller.
Plemons.	Hutchinson.	4	43.2	.....	82	31	-16	3	53	T.	.....	T.	T.	0	16	7	8	sw.	C. S. Solomon.	
Quanah.	Hardeman.	1,563	6	46.2	.....	82	31	-3	3	40	T.	.....	T.	0	21	10	0	s.	Wm. H. Crawford.	
Ringo Crossing.	Hopkins.	1	.....	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	8	3	20	s.	H. J. Palmer.
Romero.	Hartley.	1	43.0	.....	75	30†	-15	3	56	0.04	.....	0.02	0.5	2	14	7	10	sw.	R. S. Chamberlain.	
Sherman.	Grayson.	745	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. A. Gibbs.
Texline.	Dallam.	4,694	6	.....	.....	.....	.....	-12	2	T.	.....	T.	T.	0	17	7	7	n.	Ft. W. & D. C. Ry.	
Tulia.	Swisher.	3,501	10	46.6	+ 9.6	82	31	-12	3	52	0.32	- 0.38	0.30	2	12	9	20	sw.	Lou Mulhall.	
Wichita Falls.	Wichita.	958	4	.....	.....	.....	.....	.....	.....	.....	0.24	- 0.80	0.13	0.0	3	25	0	6	s.	R. A. Thompson.
Winfield.	Titus.	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.24	0.0	0.1	1	11	7	13	s.	J. C. Bostick.	
Kansas.																				
Alden.	Rice.	1,684	1	.....	.....	.....	.....	.....	.....	.....	0.71	.....	0.48	0.2	5	14	0	16	nw.	L. B. Wait.
Anthony.	Harper.	1,329	14	37.4	.....	78	10	-12	3	50	0.11	- 0.51	0.09	T.	2	8	11	12	sw.	R. H. Beebe.
Ashland.	Clark.	1,951	23	37.6	+ 4.3	83	31	-19	3	54	0.14	- 0.37	0.08	T.	3	13	10	8	s.	C. W. Carson.
Burlington.	Coffey.	1,010	18	32.8	+ 1.4	68	10†	-8	3	51	0.09	- 0.93	0.05	T.	3	7	13	11	s.	O. E. Sanford.
Chanute.	Neosho.	940	7	36.6	.....	73	26†	-8	3	48	0.78	.....	0.30	T.	3	2	18	11	sw.	Chase W. Brown.
Cimarron.	Gray.	2,700	5	37.2	.....	77	31	-18	3	54	0.35	.....	0.25	0.2	3	12	16	3	ne.	Fred Mallonee.
Coldwater.	Comanche.	2,090	14	37.3	+ 4.3	78	10	-14	3	50	T.	- 0.79	T.	T.	0	16	6	9	s.	J. L. Stanley.
Columbus.	Cherokee.	898	21	38.1	+ 4.8	77	11	-7	3	49	0.48	- 1.47	0.21	T.	7	6	6	19	sw.	O. E. Skinner.
Coolidge.	Hamilton.	3,348	14	35.9	+ 6.3	75	24†	-18	3	57	0.04	- 0.18	0.04	0.2	1	21	4	6	se.	W. R. Padley.
Cottonwood Falls.	Chase.	1,234	2	33.0	.....	71	29	-11	3	53	0.22	.....	0.15	T.	4	5	11	15	s.	E. B. Greene.
Council Grove.	Morris.	1,234	2	33.0	.....	72	31	-12	3	40	0.60	.....	0.30	1.0	3	6	9	15	s.	Jas. Sharpe.
Cunningham.	Kingman.	1,680	26	36.5	+ 3.9	78	10†	-15	3	52	T.	.....	0.66	T.	0	14	8	9	s.	W. H. Morton.
Dodge City.	Ford.	2,513	37	36.0	+ 8.7	78	10	-17	3	50	0.22	- 0.25	0.14	1.4	4	11	12	8	s.	U. S. Weather Bureau.
El Dorado.	Butler.	1,291	9	35.2	.....	70	11	-9	3	52	0.09	.....	0.04	T.	3	11	11	9	s.	W. Y. Miller.
Ellinwood.	Barton.	1,790	36	34.7	+ 4.1	78	10	-20	3	58	0.26	- 0.50	0.11	1.2	5	7	14	10	s.	Martin Musil.
Emporia.	Lyons.	1,138	30	36.2	+ 7.9	70	31	-6	3	42	0.10	- 0.58	0.10	T.	1	4	11	16	s.	W. H. Boyles.
Eureka.	Greenwood.	1,412	14	35.6	.....	72	31	-8	3	46	0.21	- 0.74	0.10	T.	6	12	12	7	s.	T. C. Peffer.
Fall River.	.....	925	15	36.6	+ 2.7	75	29	-7	3	47	0.35	- 0.66	0.25	0.0	2	6	10	15	s.	J. McDaniel.
Fredonia.	Wilson.	864	8	37.0	.....	73	26†	-8	3	46	0.38	.....	0.29	T.	4	8	9	14	s.	B. W. Holmes.
Garden City.	Finney.	2,836	22	35.4	+ 4.8	75	10†	-17	3	48	T.	- 0.32	T.	0	16	9	6	s.	B. F. Stocks.	
Greensburg.	Kiowa.	2,235	4	36.4	.....	77	31	-16	3	55	0.05	.....	0.05	0.5	1	24	2	5	s.	C. C. Raymond.
Grenola.	Elk.	1,116	23	36.8	+ 4.6	74	10	-8	3	44	0.35	- 0.88	0.26	T.	3	4	14	13	sw.	W. H. Lawyer.
Howard §.	.....	1,112	4	.....	.....	77	10	-16	3	54	0.34	.....	0.34	T.	1	10	6	15	s.	J. W. Eby.
Hugoton.	Stevens.	37.8	.....	80	10	-19	3	56	T.	.....	T.	0	19	7	5	s.	E. M. Anderson.			
Hutchinson.	Reno.	1,535	21	34.7	+ 3.6	75	10	-15	3	56	0.08	- 0.52	0.08	T.	1	9	11	11	sw.	E. S. Webster.
Independence.	Montgomery.	800	37	38.4	+ 3.0	74	10	-8	3	44	0.29	- 1.27	0.18	T.	7	4	10	17	s.	F. L. Kenoyer.
Iola.	Allen.	984	5	35.0	.....	72	29	-8	3	50	0.09	- 0.89	0.06	T.	2	4	12	15	sw.	U. S. Weather Bureau.
Irene.	Hamilton.	3,440	1	37.7	.....	78	10†	-19	3	58	T.	.....	T.	0	19	7	5	sw.	N. M. Herbig.	
Jetmore.	Hodgeman.	2,268	10	35.5	.....	84	31	-19	3	60	0.07	- 0.25	0.07	T.	1	5	19	7	s.	James Aiken.
Kingman.	Kingman.	1,504	3	36.2	.....	76	10	-13	3	54	0.05	.....	0.03	0.2	2	13	9	9	s.	B. B. Anawalt.
La Crosse.	Rush.	2,061	9	34.3	.....	85	31	-22	3	54	0.06	.....	0.06	0.5	1	14	15	2	sw.	Rodney Torrey.
Lakin.	Kearney.	2,993	21	35.2	+ 5.0	74	10†	-16	3	54	T.	- 0.27	T.	0	19	7	5	ne.	C. H. Longstreth.	
Larned.	Pawnee.	2,090	26	34.8	.....	77	10	-18	3	60	0.03	- 0.23	0.02	0.4	2	6	10	10	s.	H. H. Wolcott.
Lebo.	Coffey.	1,138	25	33.8	+ 4.8	71	29	-9	3	47	0.17	- 0.95	0.06	T.	4	5	10	16	s.	J. J. Bowman.
Le Roy.	.....	990	2	.....	.....	.....	.....	.....	.....	.....	0.06	.....	0.03	T.	3	7	2	22	ne.	F. W. Schmitt.
Liberal.	Seward.	2,843	4	38.5	.....	79	31	-16	3	55	0.10	.....	0.10	0.0	1	10	4	17	sw.	Dr. R. T. Nichols.
Macksville.	Stafford.	2,032	22	34.4	+ 3.8	76	10	-16	3	59	0.40	- 0.22	0.40	T.	1	11	10	10	s.	Mrs. Nelia Poling.
McPherson.	McPherson.	1,495	23	32.9	+ 3.4	72	10	-14	3	53	0.81	+ 0.01	0.75	T.	3	12	7	12	s.	Ed. F. Haberlein.
Madison.	Greenwood.	1,074	10	33.8	.....	74	29	-10	3	50	0.42	.....	0.39	0.0	0	7	11	13	se.	C. A. David.
Marion.	Marion.	1,310	18	33.8	+ 2.6	70	31	-13	3	55	0.11	- 0.52	0.06	0.5	4	5	18	8	s.	Jerry Forney.
Medicine Lodge.	Barber.	1,259	18	36.3	+ 3.1	81	10	-15	3	51	0.05	- 0.37	0.05	T.	1	12	14	5	s.	S. P. Garrison.
Medora.	Reno.	1,484	2	.....	.....	.....	.....	.....	.....	.....	0.05	- 0.62	0.05	T.	1	8	9	14	s.	M. L. Rickenbrode.
Mount Hope.	Sedgewick.	1,410	14	.....	.....	.....	.....	.....	.....	.....	0.05	- 0.62	0.05	T.	0	12	0	19	w.	H. N. Renfrew.
Neosho Rapids.	.....	1,092	6	42.9†	.....	81	10	.....	49	T.	.....	T.	0	13	9	9	sw.	W. H. McMullin.		
Newton.	Harvey.	1,454	25	35.2	+ 3.8	70	10†	-11	3	54	0.05	- 0.61	0.05	T.	1	13	9	9		

TABLE 1.—*Climatological data for January, 1911. District No. 7—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.				Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, .01 inch or more.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.					
Oklahoma—Continued.																							
El Reno	Canadian	1,400	20	43.2*	+ 7.8	88	31	- 8	3	58	0.14	- 1.06	0.13	0	2	8	6	10	sw.	Rose E. Walker.			
Enid	Garfield	1,269	10	39.4	+ 3.4	82	11	- 11	3	60	0.13	- 1.35	0.05	0	3	16	6	9	s.	Uri B. Worcester.			
Erick	Beckham	2,058	6	41.1	-	82	29	- 11	3	43	0.11	-	0.11	0	1	15	8	8	s.	A. W. Hanes.			
Fairland	Ottawa	839	11	41.9	+ 4.0	78	11	- 5	3	40	0.20	- 1.72	0.10	T.	4	6	11	14	s.	C. W. Prier.			
Fort Gibson	Muskogee	556	6	-	-	-	-	-	-	-	1.03	-	0.47	0	7	12	3	16	s.	John T. Welch.			
Frederick	Tillman	1,293	5	46.3	-	90	31	- 8	3	49	0.11	-	0.08	0	2	15	-	10	sw.	B. B. Bradley.			
Gage	Ellis	2,138	7	-	-	82	31	- 13	3	51	T.	-	T.	T.	0	19	7	5	sw.	C. H. Holmes.			
Goodwell	Texas	3,300	1	43.6	-	82	31	-	3	43	0.18	-	0.93	0.18	0	1	11	0	13	s.	S. W. Block.		
Guthrie	Logan	1,000	18	47.4*	+ 9.5	82	-	-	-	-	-	-	-	0.17	0	1	-	-	sw.	S. E. Snyder.			
Guymon	Texas	3,133	2	-	-	-	-	-	-	-	-	-	-	0.00	0	0	12	11	8	sw.	A. L. Mordt.		
Harrington	Roger Mills	2,200	7	42.0	-	87	31	- 10	3	46	0.00	-	-	0.15	0	1	15	4	12	s.	T. Compton.		
Hartshorne	Pittsburg	700	12	50.5	+ 8.1	84	31	0	2	40	0.15	-	1.58	0.15	0	2	15	7	9	s.	Robt. Holmes.		
Healdton	Carter	900	17	47.2	+ 5.7	90	31	2	3	46	0.37	-	1.18	0.20	0	3	15	7	2	s.	C. H. Headl.		
Helena	Alfalfa	1,396	3	35.3	-	80	31	- 12	3	42	0.16	-	0.15	0.20	0	2	10	13	8	s.	R. E. Ellis.		
Hennessey	Kingfisher	1,166	16	40.8	+ 2.6	80	10†	- 13	3	44	0.22	-	0.88	0.20	0	2	9	11	11	s.	Mrs. M. C. Parks.		
Hobart	Kiowa	1,396	8	44.8	-	86	31	- 8	3	42	0.19	-	0.17	0.20	0	3	17	6	8	s.	Roy Benedict.		
Holdenville	Hughes	900	10	43.2	+ 3.1	81	31	- 3	3	51	0.33	-	1.53	0.20	0	1	11	4	16	s.	Mary Rutherford.		
Hooker	Texas	3,038	5	39.0	-	83	31	- 20	3	59	0.04	-	0.04	T.	1	11	4	16	s.	H. N. Kelly.			
Hurley	Cimarron	4,200	3	37.6	-	78	31	- 20	3	55	0.02	-	0.02	0.5	1	10	14	7	sw.	Dr. C. W. Meyers.			
Idabel	McCurtain	474	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	None.				
Jefferson	Grant	1,062	17	37.2	+ 1.9	85	31	- 14	3	45	0.31	-	0.59	0.25	T.	3	13	9	9	s.	T. E. Beck.		
Kenton	Cimarron	4,000	10	42.8	+ 6.7	80	31	- 11	3	52	T.	-	0.25	T.	T.	15	4	12	sw.	Wm. M. Guy.			
Kingfisher	Kingfisher	1,046	14	42.2	+ 3.5	85	31	- 11	3	46	0.13	-	0.91	0.13	0	1	8	14	9	s.	J. C. Cross.		
McAlester	Pittsburg	698	15	49.1	-	84	31	1	3	40	0.15	-	1.98	0.11	0	2	8	7	16	se.	Wm. Noble.		
McComb	Pottawatomie	1,200	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	se.	J. E. McNair.			
Mangum	Greer	1,555	18	47.4	+ 6.7	86	31	- 7	3	59	0.22	-	0.67	0.22	0	1	16	10	5	s.	F. D. Dodson.		
Marlow	Stephens	1,292	10	42.9	+ 3.0	83	31	- 5	3	57	0.41	-	0.56	0.20	0	2	7	5	19	se.	Wm. B. Anthony.		
Meeker	Lincoln	1,030	17	41.3	+ 3.5	91	31	- 10	2	46	0.20	-	1.39	0.20	0	1	11	1	19	s.	Dr. J. H. Baugh.		
Muskogee	Muskogee	614	12	45.8	+ 6.6	80	31	- 3	3	54	0.77	-	0.79	0.41	0	2	12	5	14	s.	J. Harry Randall.		
Mutual	Woodward	3	40.4	-	-	87	31	- 8	3	46	0.00	-	0.00	0.00	0	0	15	4	12	s.	Thos. Martin.		
Neola	Caddo	1,500	5	44.9	-	90	31	- 11	3	46	0.16	-	0.10	0.02	0	2	11	14	6	s.	R. N. Schooling.		
Newkirk	Kay	1,149	13	39.5	+ 3.7	78	31	- 10	3	45	T.	-	1.39	T.	0	0	11	9	11	s.	P. H. Albright & Co.		
Norman	Cleveland	1,171	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	s.	D. W. Ohern.			
Oakwood	Dewey	1,854	1	39.8	-	88	31	- 14	3	46	0.06	-	0.06	0	1	15	7	9	s.	Dr. F. P. Osborn.			
Okeene	Blaine	1,194	7	40.4	-	79	31	- 12	3	43	0.10	-	0.10	T.	1	15	10	6	s.	Dr. L. H. Murdoch.			
Oklahoma	Oklahoma	1,247	20	41.5	+ 6.8	83	31	- 9	3	46	0.17	-	1.17	0.14	0	3	9	10	12	s.	U. S. Weather Bureau.		
Okmulgee	Okmulgee	752	7	44.2*	-	82	11†	- 4	2	46	0.28	-	0.28	0	1	12	4	15	s.	J. L. Maynard.			
Pauls Valley	Garvin	880	11	45.3	+ 3.9	86	31	- 3	3	47	0.22	-	0.84	0.22	0	1	18	9	4	s.	A. M. Foss.		
Pawhuska	Osage	918	11	41.8	+ 3.9	79	27	- 12	3	44	0.17	-	1.33	0.11	T.	3	8	17	6	n.	R. C. Block.		
Perry	Noble	920	12	41.0	+ 3.7	79	31	- 12	3	40	0.14	-	0.89	0.10	0	3	8	9	14	s.	J. A. Douglass.		
Ravia	Johnson	796	8	47.5	-	82	31	0	3	39	0.28	-	0.28	0	1	17	2	12	s.	R. G. Guttill.			
Sac and Fox Agency	Lincoln	900	18	43.5	+ 3.6	79	11	- 7	3	42	0.15	-	0.65	0.10	0	2	14	6	11	s.	M. R. Gayle.		
Shawnee	Pottawatomie	1,041	10	41.6	+ 1.9	82	31	- 8	3	44	0.27	-	0.85	0.19	0	4	10	5	10	nw.	Mrs. Kate Chatman.		
Snyder	Kiowa	1,356	4	46.2	-	89	31	- 9	3	49	0.13	-	0.11	0.11	0	2	12	13	6	se.	Dr. W. C. Woodard.		
Stillwater	Payne	880	18	40.4	+ 3.3	78	31	- 10	3	54	0.20	-	0.99	0.16	0	2	9	6	16	se.	C. L. McArthur.		
Tulsa	Tulsa	700	22	40.9	-	80	11	2	2	48	0.43	-	1.27	0.27	0	4	10	15	6	s.	Dr. H. M. Hutchinson.		
Vinita	Craig	698	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	se.	C. E. Lahman.			
Wagoner	Wagoner	588	14	42.2	+ 4.5	80	11	- 4	3	44	0.37	-	1.85	0.22	0	3	12	1	18	s.	S. L. Hatfield.		
Waupomis	Garfield	1,258	14	40.2	+ 2.4	81	10	- 11	3	46	0.18	-	0.79	0.11	T.	2	14	8	9	s.	R. C. Shades.		
Waurika	Jefferson	988	1	45.0	-	90	31	0	3	46	0.19	-	0.12	0.08	0	3	16	6	9	sw.	B. A. Swindler.		
Weatherford	Custer	1,639	10	41.8	+ 3.9	92	31	- 10	3	64	0.14	-	0.62	0.14	0	1	14	10	7	s.	M. D. Reed.		
Webbers Falls	Muscowee	479	12	44.3	+ 3.9	80	11†	- 2	2	46	0.77	-	1.07	0.55	0	3	7	12	12	se.	B. D. Boulineau.		
Whiteagle	Kay	945	7	41.6	-	84	25	- 12	3	46	T.	-	T.	T.	0	0	15	3	13	s.	Irvin G. Dillon.		
Woodward	Woodward	1,957	8	40.8	-	87	31	- 15	3	47	T.	-	T.	T.	0	0	16	12	3	se.	R. A. Boyle.		
<i>Missouri.</i>																							
Belle	Maries	19	38.4	+ 6.0	71	11	- 4	3	43	0.55	-	1.77	0.30	0	2	6	10	15	s.	A. J. Wofford.			
Birchtree	Shannon	1,200	18	41.6	+ 6.8	74	27	- 3	3	43	0.14	-	2.48	0.08	0	2	10 ^a	6 ^a	14 ^a	s.	V. H. Kirkendall.		
Cape Girardeau	Cape Girardeau	305	6	-	-	21	44.4	+ 5.6	76	11	2	4	35	0.93	-	3.20	0.55	0	4	8	15	n.	D. L. Albert.
Caruthersville	Pemiscott	21	-	-	-	-	-	-	-	-	-	-	-	0.30	-	0	4	5	8	15	s.	H. E. Averill.	
Cassville	Barry	0	41.2	-	-	77	11	- 5	3	50	0.22	-	0.08	T.	4	10	11	10	10	s.	Mrs. Zuma Bloomer.		
Dean	McDonald	12	41.0	+ 3.5	78	11	- 6	3	44	0.50	-	1.53	0.26	0	0	6	18 ^a	1 ^a	11 ^a	s.	H. E. Dean.		
Doniphan	Ripley	440	7	43.4	-	74	27	3	3	46	0.39	-	0.40	0	4	10	6	15	15	s.	W. W. Martin.		
Gano	Dent	8	39.6	-	-	75	11	- 6	3	46	0.52	-	0.28	0.3	6	9	6	16	16	s.	A. C. Leech.		
Greenville	Wayne	17	-	-	-	76	11	- 4	3	46	0.36	-	0.55	0.26	0	1	11	0	20	s.	F. M. Adams.		
Hollister	Taney	1,000	1	42.9	-	78	11†	- 8	4	46	0.00	-	0.00	0	0	9	0	22	sw.	A. G. Templeton.			
Ironton §§	Iron	925	33	39.2	+																		

TABLE 1.—*Climatological data for January, 1911. District No. 7—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.								Precipitation, in inches.				Sky.				Observers.	
				Mean.				Departure from the normal.				Total.		Departure from the normal.		Number of rainy days, .01 inch or more.					
				Lowest.	Highest.	Date.	Lowest.	Date.	Highest.	Date.	Greatest daily range.	Total.	Greatest in 24 hours.	Total snowfall, unmelting.	Number of clear days.	Number of partly cloudy days.	Number of fully cloudy days.	Prevailing wind direction.			
<i>Arkansas.</i>																					
Alicia.	Lawrence.	7		51.0	+ 8.9	83	31	5	4	42	0.61	- 4.09	0.19	T.	6	7	8	16	sw.	McCullough & Guelck.	
Amity.	Clark.	250	19	52.2	-	81	31	6	4	49	0.59	- 2.83	0.18	T.	6	9	8	14	sw.	Prof. S. M. Samson.	
Arkadelphia (near).	do.	250	4	52.2	-	81	31	6	4	49	1.82	- 2.83	0.98	T.	6	9	8	14	sw.	J. A. Ross.	
Arkansas City.	Desha.	145	28								1.24	-	0.48	T.	7	5	5	21		W. C. Blundell.	
Batesville.	Independence.	271	12								1.45	- 2.77	0.40	T.	6	5	5	21		Lelia I. Teter.	
Bee Branch.	Van Buren.	19	46.4	+ 5.3	75	11†	3	4	41	1.45	-									J. E. Scanlan.	
Benton.	Saline.	283	4																	P. B. Jackson.	
Bentonville.	Benton.	1,303	6	41.6	+ 7.5	75	11	- 6	3	51	0.62	- 2.01	0.44	T.	8	11	9	11	s.	U. S. Weather Bureau.	
Bergman.	Boone.	1,324	15	39.9	+ 4.0	71	27	- 9	3	39	1.48	- 1.08	1.05	T.	0	3	11	6	sw.	John T. Maxey.	
Black Rock.	Lawrence.	259	7								1.32	-	0.72							S. J. Howe.	
Brinkley.	Monroe.	226	25	46.6	+ 5.3	79	11	7	5	41	1.20	- 3.73	0.43	0.5						H. L. D. Whitson.	
Calico Rock.	Izard.	361	7								0.92	-	0.80	0						W. H. Stoner.	
Camden.	Ouachita.	158	26	52.8	+ 9.8	84	31	6	4	43	1.00	- 4.48	0.22	T.	8					R. H. Quartermann.	
Centerpoint.	Howard.	470	11	52.4	+ 6.8	86	31	5	4	37	0.83	- 2.20	0.56	0	3	5	8	18	se.	J. M. Huddleston.	
Clarendon.	Monroe.	171	7								1.60	-	0.77	0.2	7					Mrs. B. E. Bishop.	
Conway.	Faulkner.	309	28	48.4	+ 9.2	80	11	6	4	38	0.84	- 3.20	0.23	0.2	7	5	13	13	s.	G. H. Burr.	
Corning.	Clay.	293	19	44.4	+ 9.3	74	11	7	4	40	0.87	-	3.01	0.25	3	7	4	10	17	Jacob Brobst.	
Dardanelle.	Yell.	330	25	46.2	-	80	11	5	4	40	0.72	- 2.17	0.16	0	7				A. Bernard.		
Dodt City.	Marion.	1,175	30	43.1	+ 0.8	76	-	3		41	0.74	- 2.13	0.54	0	3				Neal Dodd.		
Earl.	Crittenden.	223	5																W. J. Moss.		
Eldorado.	Union.	265	7	51.0	-	82	31	8	4	40	1.00	-	0.40	0.2	8				Jeff J. Babb.		
England.	Lonoke.	5	49.6	-	79	11	5	4	42	1.12	-	0.42	1.0	4	20	7			J. C. Chenault.		
Eureka Springs.	Carroll.	1,465	9	44.7	-	76	11	- 5	3	43	0.40	-	0.40	0	1	4	20		S. H. Britts.		
Fayetteville.	Washington.	1,451	22	44.7	+ 9.3	75	11	- 7	3	37	0.67	- 2.05	0.38	0	4	7	11	13	sw.	University of Arkansas.	
Fort Smith.	Sebastian.	481	29	46.4	+ 8.1	79	11	2	3	48	0.40	- 2.11	0.18	0	3	7	8	16	e.	U. S. Weather Bureau.	
Fulton.	Hempsted.	264	7								0.60	-	0.40	1.0	4	10	1	13	sw.	B. C. Logan.	
Hardy.	Sharp.	643	13	44.4	+ 5.7	75	27	3	3†	44	0.90	- 3.06	0.28	0.2	10	5	9	13	sw.	C. A. Caywood.	
Helena.	Phillips.	182	26	46.5	+ 4.2	76	11†	2	4	37	1.48	- 4.05	0.84	0.2	6	2	7	2	s.	B. F. Modisett.	
Hot Springs.	Garland.	600	5	47.8	-	79	31	4	4	43	0.51	-	0.20	0	3	23	6	2		Hot Spring Water Co.	
Huttig.	Union.	85	4	53.2	-	83	8				38b	1.87	-	0.80	0	4	4	2	7	se.	C. A. Berry.
Jonesboro.	Craighead.	345	16	44.8	+ 4.4	76	11	1	4	40	1.45	- 4.71	0.55	0.5	2	22	7			Benedictine Sisters.	
Junction.	Union.	18	52.8	+ 8.8	80	31	7	4	40	0.72	- 2.41	0.30	T.	3	19	4	8	sw.	J. A. Lowerback.		
Lake Farm.	Jefferson.	195	4	50.0	-	78	11†	3	4	42	2.40	-	1.41	0.5	5	6	13	12	s.	R. H. Gillispie.	
Lewisville.	Lafayette.	262	8	53.4	-	85	31	8	4	38	0.90	-	0.26	T.	7	9	9	13	sw.	R. W. Youmans.	
Little Rock.	Pulaski.	357	32	48.2	+ 7.6	77	11	8	4	34	0.98	- 3.81	0.35	0.6	10	5	7	19	sw.	U. S. Weather Bureau.	
Lutherville.	Johnson.	775	14	47.0	+ 7.5	76	11†	2	3†	46	0.80	- 2.38	0.50	0	5	8	13	10	sw.	G. H. Hentschel.	
Malvern.	Hol Spring.	277	24	49.7	+ 8.6	78	11	9	4	35	0.92	- 4.79	0.27	T.	5					Miss L. C. Smith.	
Mammoth Spring.	Fulton.	512	7	43.1	-	77	27	1	4	44	0.63	-	0.25	0	5	9	13	9		F. Wallack.	
Marked Tree.	Poinsett.	229	7								1.47	-	0.44	2.4	7					L. Smith.	
Mena.	Polk.	1,100	25	49.2	+ 9.4	80	31	- 1	3	37	0.64	- 3.17	0.25	0.0	8	12	11	8	sw.	R. R. St. John.	
Newport.	Jackson.	231	27	44.6	+ 6.4	76	11	5	4	39	1.31	- 3.58	0.48	0.3	9					Chas. Sprigg.	
Ozark.	Franklin.	377	20	47.8	+ 8.1	80	31	1	3	37	0.74	- 1.96	0.44	0	4	16	11	4	e.	R. M. Adams.	
Pine Bluff.	Jefferson.	215	23	49.5	+ 7.0	80	8	4	33	0.56	-	5.10	0.22	T.	6					J. M. Hudson.	
Pocahontas.	Randolph.	19	45.8	+ 10.3	76	2					44d	1.37	- 2.87	0.47	0	7	5	13	13		Benedictine Sisters.
Pond.	Benton.	1,250	14	43.3	+ 6.4	76	11	- 7	3	40	0.61	- 1.81	0.42	0	3	5	10	16	sw.	A. F. Stevens.	
Portland.	Ashley.	122	2	50.6	-	81	31	9	4	40	0.23	-	2.00	0.2	10	7			L. W. Gregory.		
Prescott.	Nevada.	327	23	49.9	+ 7.6	83	31	4	4	40	0.78	- 4.08	0.23	T.	7					A. M. Ellsworth.	
Rogers.	Benton.	1,385	20	44.6	+ 9.8	76	11	- 6	3	38	0.72	- 1.83	0.72	0	1	8	3	20	s.	Carl A. Starck.	
Springbank.	Miller.	182	4								0.82	-	0.35	0	5					G. Field.	
Stuttgart.	Arkansas.	495	24	49.6	+ 7.8	79	31	7	4	36	0.66	- 4.78	0.21	0.2	6	7	12	12	s.	H. A. Buerke.	
Subiaco.	Logan.	1,050	14	47.8	+ 6.6	75	11	2	3	38	0.52	- 2.96	0.18	0	4	15	5	11	sw.	New Subiaco Abbey.	
Swain.	Newton.	41.9																	George Paxton.		
Texarkana.	Miller.	332	27	51.6	+ 5.6	84	31	10	3	31	0.66	- 2.41	0.30	T.	4					D. E. Moore.	
Warren.	Bradley.	304	16	49.8	+ 6.4	82	31	7	4	37	1.24	- 3.77	0.54	0	5				W. J. Savage.		
Whitecliffs.	Little River.	206	7								0.21	-	0.08	0	4					John E. Payton.	
Wiggs.	Garland.	18	48.0	+ 6.3	80	31	0	4	44	0.52	- 4.35	0.16	0	0	4	5	14	12	sw.	S. D. Jester.	
Wynne.	Cross.	250	3	47.2	-	83	31	6	4	43	1.25	-	0.20	0.7	11					John Seals.	
<i>Mississippi.</i>																					
Anguilla.	Sharkey.	107	3	53.6	-	78	31	10	4	33	5.73	-	4.70	1.0	5	5	15	11	sw.	E. W. Cook.	
Austin.	Tunica.	200	15	48.8	+ 5.4	76	31	0	4	34	1.66	- 4.29	0.72	3.0	3	12	7	12	s.	H. J. Irvine.	
Batesville.	Panola.	230	24	46.8	+ 3.1	77	31	- 1	4	47	2.54	- 2.23	1.49	3.0	8	6	4	21	s.	J. M. Cox.	
Big Creek.	Calhoun.	49.9									5.11	-	4.40	1.1	7	5	9	17	s.	J. P. Havens.	
Byhalia.	Marshall.	390	2								2.22	-	0.83	2.0	6	11	7	13		Tallahatchie Drng. Com.	
Canton.	Madison.	228	21	54.9	+ 8.5	79	31	12	4	30	4.87	- 0.47	3.80	0.2	7	3	19	9	se.	Dr. G. W. Smith-Vaniz.	
Charleston.	Tallahatchie.	1									3.70	-	2.15	2.5	6	14	11			W. B. Burke.	
Clarksville.	Coahoma.	177	4	47.6	-	79	31	0	4	46	2.42	-	0.83	4.0	10	5	24	24	s.	A. C. Tuttle.	
Coffeeville.	Yalobusha.	241	2								4.85	-	3.75	1.0	8	4	21	6	n.	Tallahatchie Drng. Com.	
Corinth.	Alcorn.	470	23	44.9	+ 4.6	75	29	- 2	4	47											

TABLE 1.—Climatological data for January, 1911. District No. 7—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Observers.		
				Mean.	Departure from the normal.			Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.			
					Highest.	Date.	Lowest.												
<i>Mississippi</i> —Cont'd.																			
Utica	Hinds	287	7	56.4	.....	79	13†	11	4	35	3.89	.....	3.50	0.0	3	17	4	10 s.
Vicksburg	Warren	247	40	55.4	+ 8.4	77	31	14	4	35	4.70	- 0.97	4.30	0.6	6	4	14	13 sw.	
Water Valley	Yalobusha	300	22	49.4	+ 5.9	77	31	- 2	4	35	3.25	- 2.08	2.00	2.0	4	13	8	10 e.	
Woodville	Wilkinson	560	18	58.8	+ 8.7	81	28	13	4	32	2.70	- 2.84	2.20	T.	2	25	5	1 sw.	
Yazoo City	Yazoo	116	17	53.6	+ 7.4	83	31	10	4	31	5.42	+ 0.34	3.74	0.2	7	10	2	19 se.	
<i>Louisiana</i>																			
Abbeville	Vermilion	18	23	61.4	+ 7.9	81	27	17	4	34	2.27	- 2.04	2.15	0.0	2	12	13	6 s.	
Alexandria	Rapides	77	23	56.4	+ 7.5	81	28	11	4	45	4.9	- 0.78	2.60	0.5	3	5	4	22 sw.	
Armité	Tangipahoa	130	23	58.6	+ 7.4	80	27†	17	4	39	5.45	+ 0.10	5.05	0.0	3	9	18	4 se.	
Baton Rouge	E. Baton Rouge	60	23	61.6	+ 9.9	79	12	21	4	27	2.54	- 2.41	2.45	T.	3	4	0	27	
Burnside§	Ascension	20	11	61.8*	+ 8.1	81	30	19	4	27	3.09	- 1.28	3.00	0.0	3	7	9	15 ne.	
Burwood	Plaquemines	1	23	61.1	+ 5.6	79	15	26	4	25	2.04	- 1.71	1.98	0.0	3	15	10	6 C. S. McFarland.	
Cades §	St. Martin	1	18	61.8	.....	79	13†	20	4	35	1.92	- 1.48	0.0	0.0	2	18	9	4 Graham Myers.
Calhoun	Ouachita	180	23	54.6	+ 8.1	84	31	9	4	35	0.79	- 3.66	0.51	0.0	3	6	12	13 C. E. Smedes.	
Cameron		6	18	57.0	+ 0.9	74	7	20	3†	25	0.31	- 3.40	0.31	0.0	1	4	13	14 N. L. Exp. Station.	
Carrollton	Orleans	7	1															State Biologic Station.	
Cheneyville	Rapides	67	23	59.8	+ 10.3	84	30	16	4	40	7.80	+ 3.18	6.00	0.5	3	11	3	17 Loyola College.	
Cinclare	W. Baton Rouge	1	59.4	.....	80	27†	17	3	32	2.60	.....	2.60	0.0	1	18	8	5 C. J. Edwards.	
Clinton	East Feliciana	113	23	59.54	+ 8.9	81	29†	15	4	37*	4.64	- 0.38	4.45	T.	3	2	3	26 Nellie Graham.	
Collinston	Morehouse	65	10	54.6	+ 7.6	86	20	10	4	42	4.08	.....	1.90	1.0	5	5	5	21 Elmo M. Bott.
Covington	St. Tammany	39	19	58.6	+ 8.4	82	30	19	4†	39	2.24	- 2.03	2.22	0.0	5	3	23	Lucile Champagne.	
Dodson	Winn	2	56.7	.....	83	23	3	4	45	2.49	.....	1.78	3.5	5	9	10	12 J. P. Lucas.	
Donaldsonville	Ascension	33	23	62.5	+ 9.5	85	12	20	4	31	7.40	+ 3.22	7.20	0.0	3	11	4	16 John F. Park.	
Farmerville	Union	177	23	54.2*	+ 7.6	83	31	8	3	39†	2.12	- 2.23	0.79	1.8	4	4	7	20 W. P. Chandler.	
Ferriday	Concordia	4	56.8	.....	80	11†	12	4	35	5.25	.....	5.00	2.5	2	20	3	8 R. Z. Slater.	
Franklin	St. Mary	10	19	61.6	+ 9.3	83	28	20	4†	42	2.74	- 0.51	2.50	0.0	5	9	3	19 J. M. Bonney.	
Grand Cane	De Soto	302	15															Chas. M. Huson.	
Grand Coteau	St. Landry	93	23	61.6	+ 8.6	82	29	16	4	34	4.75	+ 0.19	4.50	T.	2	5	19	7 St. Charles College.	
Hammond	Tangipahoa	44	19	61.0	+ 9.8	82	22†	18	4	36	1.43	- 2.71	0.93	0.0	2	23	6	2 C. C. Carr.	
Houma	Terrebonne	23	64.2	+ 10.6	83	27†	20	5	40*	.....	.....	.....	.....	.....	2	1	7	nw. H. M. Foote.
Jena	Catahoula																	W. B. Taylor, Jr.	
Jennings	Calcasieu	30	14	54.8	+ 2.7	80	27	17	4†	31	3.05	- 1.91	1.62	0.0	4	7	18	6 se. J. F. Buck.	
Lafayette	Lafayette	36	23	59.8	+ 7.0	80	27	18	4	38	4.00	- 0.14	3.71	0.0	6	1	7	23 J. J. Davidson.	
Lake Charles	Calcasieu	22	23	58.8	+ 6.8	81	30	14	5	44	4.40	- 0.47	4.20	0.0	3	26	0	5 Geo. Boudreax.	
Lakeside	Cameron	9	10	62.5	+ 9.2	80	27	20	4	32	2.90	.....	2.50	0.0	3	28	0	3 Miss. L. J. Nunemacher.
Lawrence	Plaquemines	6	20	60.0	+ 6.9	83	15	21	4†	36	1.55	- 1.34	1.12	0.0	3	20	8	3 H. C. Warmingoth.	
Leesville	Vernon	4	57.4	.....	84	30	9	4	38	1.58	.....	1.51	0.5	3	20	4	7 C. M. McFarland.	
Liberty Hill	Bienville	23	55.8	+ 7.2	86	31	7	4	41	1.56	- 2.78	0.82	0.0	3	6	10	15 E. A. Crawford.		
Logansport	De Soto	192	7								0.33	.....	0.14	0.2	5	5	3	23 Bettie M. Dennis.
Melville	St. Landry	45	23	59.2	+ 7.8	92	8	15	4†	40	2.87	- 2.05	2.70	0.3	3	9	4	18 Chas. B. McNeill.	
Minden	Webster	194	23	53.3	+ 6.0	84	31	8	4	47	1.12	- 2.40	0.89	0.4	5	7	2	22 Ethel Fort.	
Monroe	Ouachita	82	23	52.1	+ 4.3	86	31	11	4	43	3.78	- 0.62	2.90	T.	4	9	9	13 John G. Welch.	
Morgan City	St. Mary	14	5								3.97	.....	3.72	0.0	3	5	9	17 Virgil E. Kinsey.
Newellton	Tensas	4																John D. Fultz.	
New Iberia	Iberia	15	23	61.1	+ 7.4	76	8†	18	4	31	2.10	- 2.04	1.95	0.0	3	8	17	6 se. Mrs. Jno. A. Gebert.	
New Orleans (1)	Orleans	51	40	60.9	+ 7.9	81	22	22	4	30	3.31	- 2.32	1.98	0.0	5	10	17	4 e. U. S. Weather Bureau.	
New Orleans (2)	do	18	23	61.5	+ 8.3	83	22†	22	4	36	2.29	- 1.41	1.87	0.0	6	9	9	13 Sugar Exp. Sta.	
Opelousas	St. Landry	83	19	59.2	+ 8.0	82	27	12	4	44	2.94	- 1.37	2.47	0.0	3	2	1	28 Andrew Moresi.	
Paradis	St. Charles																	La. Meadows Co.	
Pearl River	St. Tammany	29	5								3.39	.....	3.04	0.0	3	10	17	4 Geo. F. Bancks.
Plain Dealing	Bossier	268	19	53.6	+ 7.6	85	31	7	4	38	1.17	- 2.90	0.40	0.0	8	9	12	10 Leon Sanders.	
Rayne	Acadia	44	19	61.3	+ 8.4	80	11†	18	4	29	2.55	- 1.88	2.40	0.0	3	4	2	25 A. P. McNeil.	
Reserve§	St. John Baptist	10	60.8	+ 7.7	88	12†	21	4†	33	2.27	- 1.02	3.27	T.	1	13	16	2 Leon Godchaux Co., Ltd.		
Robeline	Natchitoches	147	15	55.3	+ 8.3	84	28†	14	3	41	1.85	- 0.47	1.55	0.8	3	11	1	15 Ruby McCook.	
Ruston	Lincoln	312	16	58.4	+ 11.1	85	30†	11	4	35b	2.20	- 1.75	1.00	5.0	3	9	9	13 J. C. H. McKinney.	
St. Francisville	West Feliciana	115	8	59.0	.....	81	13†	14	4	46	4.75	.....	4.75	0.0	1	4	25	2 sw. L. P. Kilbourne.
Sheridan	Terrebonne	17	19	62.0	+ 9.0	83	24†	20	3	35	2.82	- 0.63	2.51	0.0	5	9	8	14 Harriett F. Riviere.	
Shreveport	Red River	249	40	55.0	+ 8.8	83	31	12	3	33	0.68	- 3.74	0.58	0.1	6	9	11	11 D. A. Self.	
Simmesport	Avoyelles	42	5								3.35	.....	2.95	0.4	5	2	27	2 U. S. Weather Bureau.
Southern Univ. Farm	Jefferson	14									3.67	- 1.07	3.46	0.0	2	0	27	4 C. T. Leigh.	
Sugartown	Calcasieu	18	60.3	+ 9.2	79	30	17	3	31	3.67	- 1.07	3.46	0.0	2	0	27	4 F. L. St. Martin.		
Tallulah	Madison	91	4	54.0	.....	81	21	8	4	38*	4.90	.....	3.86	0.8	4	2	22	7 G. W. Richardson.
Walker	Livingston	1	62.0	.....	81	27†	25	4	28	2.90	.....	2.90	0.0	1	11	16	4 C. E. Speed.	
																	H. C. Fondren.		

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

* Precipitation included in that of the next measurement.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

‡ Separate dates of falls not recorded.

§ Data from standard instruments not supplied by the U. S. Weather Bureau.

|| Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

† Estimated by observer.

†† Precipitation for 24 hours on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for January, 1911. District No. 7, Lower Mississippi Valley.*

TABLE 2.—*Daily precipitation for January, 1911. District No. 7—Continued.*

Stations.	River basins.	Day of month.																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total	
Texas—Continued.																																		
Hereford.	Red.																																	0.88
Lewis Ferry |||	do	T.	10																														0.20	
Memphis.	do																																0.11	
Miami.	Canadian.	.02																																
Moheetie.	Red.																																	
Nazareth.	do																																	
Ochiltree.	Canadian.																																	
Pampa.	do																																	
Paris |||	Red.	.06																															0.30	
Plemons.	Canadian.	T.																															T.	
Quanah.	Red.																																0.00	
Ringo Crossing |||	do																																0.04	
Romero.	Canadian.	.02	.02																														T.	
Sherman |||	Red.																																0.32	
Texline.	Canadian.	T.																															0.24	
Tulia.	Red.																																0.24	
Wichita Falls.	do																																	
Winfield.	do																																	
Kansas.																																		
Alden.	Arkansas.	T.	.01																														0.71	
Anthony.	do	T.																															0.11	
Ashland.	Cimarron.	T.																															0.14	
Burlington.	Neosho.	.05	T.																														0.09	
Chanute.	do	.18	T.																														T.	
Cimarron.	Cimarron.	.05																															0.35	
Coldwater.	do	T.																															T.	
Columbus.	Neosho.	.01	T.																														0.48	
Coolidge.	Arkansas.	.04																															0.04	
Cottonwood Falls.	Neosho.	.04																															0.22	
Council Grove.	do																																0.60	
Cunningham.	Arkansas.	T.																															T.	
Dodge City.	do	.03																															0.22	
El Dorado.	do	.04																															0.09	
Ellinwood.	do	.07																															0.26	
Emporia.	T.	T.																															0.10	
Eureka.	Verdigiris.	.10	T.																														0.21	
Fall River.	do																																0.35	
Fargo.	Cimarron.																																	
Frederica.	Verdigiris.	.05	T.																														0.38	
Garden City.	Arkansas.	T.																															0.05	
Greensburg.	do	T.																															0.35	
Grenola.	Verdigiris.	.04																															T.	
Howard.	do	T.																															0.34	
Hugoton.	Cimarron.	T.																															0.08	
Independence.	Verdigiris.	T.	T.	T.																												0.29		
Iola.	Neosho.	T.	T.	T.																													0.09	
Irene.	Arkansas.	T.																															T.	
Jetmore.	do	T.	T.																														0.07	
Kingman.	do	.03																															0.05	
La Crosse.	do	T.																															0.06	
Lakin.	do	T.																															T.	
Larned.	do	.01																															0.03	
Lebo.	Neosho.	.06	T.																														0.17	
Le Roy |||	do	T.																															0.06	
Liberal.	Cimarron.	T.																															0.10	
Macksville.	Arkansas.	T.	T.																														0.40	
McPherson.	do		.04																													0.81		
Madison.	Verdigiris.	T.																															0.42	
Marion.	Neosho.	.02	T.																														0.11	
Medicine Lodge.	Arkansas.	T.																															0.05	
Mount Hope.	do																																T.	
Neosho Rapids |||	Neosho.	T.	T.																														0.05	
Newton.	T.	T.																															T.	
Norwich.	do	T.																															0.44	
Oswego.	Cimarron.	T.																															0.10	
Plains.																																	0.19	
Pratt.	Arkansas.	T.																															0.52	
Rome.	do	T.																															T.	
Sedan.	Verdigiris.	T.																															0.05	
Toronto.	do																																0.14	
Ulysses.	Cimarron.	T.	T.																														T.	
Walnut.	Neosho.	.03	T.																														0.51	
Wichita.	Arkansas.	.02	T.																														0.02	
Winfeld.	do	T.																															0.17	
Yates Center.	Verdigiris.	.03				</td																												

TABLE 2.—*Daily precipitation for January, 1911. District No. 7—Continued.*

TABLE 2.—*Daily precipitation for January, 1911. District No. 7—Continued.*

TABLE 2.—*Daily precipitation for January, 1911. District No. 7—Continued.*

MONTHLY WEATHER REVIEW.

JANUARY, 1911

TABLE 3.—Maximum and minimum temperatures at selected stations, January, 1911. District No. 7, Lower Mississippi Valley.

Date.	Colorado.				New Mexico.				Texas.				Kansas.								Oklahoma.										
	Lamar.		Leadville.		Pueblo.		Albert.		Cimarron.		Amarillo.		Paris.		Dodge City.		Ellinwood.		Iola.		Liberal.		Wichita.		Ardmore.		Bartlesville.				
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.					
1....	44	4	7	-9	28	2	31	12	27	6	35	3	64	31	41	-2	42	0	50	0	30	3	42	0	57	40	50	42			
2....	9	-9	-5	-15	5	-10	14	-6	12	-13	7	-5	20	11	5	-12	5	-8	8	-11	4	-4	15	15	12	1					
3....	35	-15	15	-4	33	-12	32	-10	24	-20	37	-6	23	4	33	-17	24	-20	13	-8	38	-16	15	-10	23	-2	18	-7			
4....	45	9	22	0	48	6	41	13	35	1	46	14	47	3	49	20	47	13	41	9	50	11	44	11	46	10	47	7			
5....	57	16	28	10	57	26	44	18	53	10	53	26	56	11	56	24	59	27	47	13	52	27	58	21	53	28					
6....	44	20	26	12	49	17	49	19	55	6	56	25	57	21	50	27	51	26	44	20	52	10	48	32	56	25	54	21			
7....	63	12	26	9	61	26	63	23	61	19	66	31	62	32	59	19	60	23	55	30	59	19	56	32	61	25	62	27			
8....	58	14	32	16	44	22	49	29	50	19	54	31	66	34	50	27	53	24	49	28	51	23	49	35	64	37	55	37			
9....	60	12	41	15	65	20	66	25	61	19	69	25	59	35	54	25	54	25	63	20	55	29	57	24							
10....	72	30	33	24	65	45	65	46	57	35	73	45	75	39	76	41	78	41	77	35	74	41	78	50	76	42					
11....	67	26	32	19	62	42	67	52	58	43	73	51	81	48	59	14	69	11	65	19	70	22	66	18	82	61	79	31			
12....	50	17	36	9	63	31	62	37	61	27	71	45	73	63	43	20	67	15	34	18	49	20	34	18	77	40	46	24			
13....	47	25	32	9	65	29	66	44	61	30	72	46	71	56	36	17	35	9	32	26	50	21	34	15	73	58	50	36			
14....	62	21	35	11	63	41	63	36	62	21	71	43	75	55	32	16	23	8	28	23	61	18	24	16	74	55	36	28			
15....	58	29	38	20	53	31	67	29	63	26	72	56	35	19	25	20	26	18	49	22	26	17	55	40	35	26					
16....	40	20	35	21	50	21	52	32	62	29	73	29	59	48	25	18	22	14	31	17	39	19	26	17	52	35	36	24			
17....	48	15	35	10	45	17	63	37	51	19	44	29	49	48	41	22	40	10	30	25	43	23	29	21	36	31	38	28			
18....	54	14	35	9	57	15	61	27	55	10	54	33	45	37	53	24	47	21	28	24	52	26	38	23	40	29	35	28			
19....	65	14	45	15	67	27	69	30	67	17	64	30	49	38	63	23	55	21	39	26	68	20	40	28	51	35	50	31			
20....	76	26	37	20	69	38	71	40	67	31	76	40	68	40	71	28	59	37	58	38	77	27	58	33	73	40	67	42			
21....	66	18	28	13	38	22	59	29	57	30	59	24	68	48	38	19	50	19	38	25	60	20	35	27	47	43	42	33			
22....	38	17	25	-3	35	8	41	18	38	5	38	22	42	33	42	22	45	25	42	22	43	14	45	25	29	47	25				
23....	53	17	32	0	39	10	55	19	40	14	36	27	48	34	47	18	45	8	44	18	47	16	46	23	50	35	50	18			
24....	62	17	40	14	66	17	66	23	62	15	65	32	48	35	53	32	42	33	46	38	61	30	44	36	48	35	47	38			
25....	72	23	45	19	68	39	69	33	59	27	69	38	65	37	70	36	67	39	62	42	78	23	67	41	64	40	47	45			
26....	65	28	41	16	65	32	72	38	56	31	70	41	71	40	67	39	65	43	71	55	71	41	68	50	70	48	72	50			
27....	55	22	36	10	51	29	54	34	48	20	64	37	81	59	44	27	55	28	60	32	51	28	58	27	78	53	64	56			
28....	62	23	36	11	65	22	66	32	63	15	67	33	72	47	53	23	44	19	43	31	69	23	46	27	60	40	56	36			
29....	72	30	37	26	71	36	71	46	63	27	76	47	76	42	73	39	71	36	72	43	75	50	67	45	81	48	75	42			
30....	68	25	42	32	73	31	78	46	69	42	75	41	75	41	65	60	29	61	22	54	31	69	44	58	34	79	53	65	37		
31....	75	39	44	30	73	53	75	51	63	38	82	53	90	55	76	38	75	29	66	42	79	37	68	50	89	51	72	44			
Mean	56.2	18.0	32.0	11.9	54.6	23.6	58.1	29.1	53.8	19.3	60.1	31.1	61.7	38.9	50.1	21.8	49.5	19.9	45.1	25.0	56.0	21.0	45.6	25.3	59.3	37.2	52.0	30.5			

Date.	Oklahoma—Continued.												Missouri.								Lynnville, Ky.				Jackson, Tenn.			
	Enid.		McAlester.		Mangum.		Muskogee.		Oklahoma.		Weatherford.		Woodward.		Caruthersville.		Ironton.		Lamar.		Olden.		Springfield.		Lynnville, Ky.		Jackson, Tenn.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	40	14	61	34	48	21	62	27	45	1	29	26	45	7	49	37	48	33	54	25	47	32	56	2	50	41		
2....	12	-1	34	4	32	1	58	4	13	-2	14	-1	9	-3	49	17	17	4	9	0	47	2	5	-2	52	26		
3....	23	-11	21	1	28	-7	19	-3	20	-9	28	-10	32	-15	19	9	11	-1	17	-7	12	-3	8	-9	27	9		
4....	50	-10	45	10	68	9	44	4	48	10	56	-8	50	15	31	2	34	-1	39	-7	36	0	32	3	24	-10		
5....	52	4	55	28	24	23	52	22	48	27	50	24	56	32	44	15	45	13	49	16	46	19	47	22	44	7		
6....	57	26	61	30	74	22	57	24	56	28	54	20	58	14	58	25	45	16	43	22	44	25	44	27	55	30		
7....	64	24	63	31	58	23	58	28	62	27	66	26	65	18	50	29	55	31	59	26	56	30	54	33	49	29		
8....	68	24	63	36	64	34	56	28	56	34	58	32	55	32	62	37	54	35	52	33	53	34	47	34	61	40		
9....	65	24	64	32	63	23	57	27	58	32	54	24	59	18	49</td													

TABLE 3.—Maximum and minimum temperatures at selected stations, January, 1911. District No. 7—Continued.

Date.	Tennessee.						Arkansas.												Mississippi.									
	Memphis.		Union City.		Bentonville.		Corning.		Dardanelle.		El Dorado.		Fort Smith.		Little Rock.		Pine Bluff.		Texarkana.		Wynne.		Clarksdale.		Corinth.		Greenville.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.....	53	42	50	40	56	5	51	37	56	28	61	34	62	14	56	34	48	40	65	34	54	32	54	31	52	30	57	34
2.....	51	47	53	48	50	0	51	11	23	12	24	22	18	7	34	13	23	18	23	17	26	18	31	28	40	40	31	29
3.....	20	10	23	8	11	—6	20	8	21	8	24	13	20	2	18	8	22	12	23	10	19	10	22	11	14	12	27	13
4.....	27	9	24	—5	36	4	33	7	38	8	39	8	39	8	37	8	39	8	42	11	35	6	31	0	26	—2	34	7
5.....	45	22	39	12	48	24	46	18	52	15	55	15	55	21	50	22	53	20	54	24	52	12	48	2	45	—2	49	11
6.....	50	34	50	29	48	23	52	25	55	23	58	24	53	27	52	34	57	33	56	31	66	23	52	20	59	16	58	22
7.....	51	38	48	31	57	28	53	16	60	27	64	31	57	33	56	36	62	40	56	32	60	32	52	30	63	31	52	31
8.....	62	45	59	43	52	31	60	36	66	33	69	42	63	28	60	37	65	46	60	38	64	23	66	39	65	36	71	43
9.....	51	35	50	28	56	52	29	52	24	55	43	53	32	52	36	57	36	55	41	54	34	55	37	52	34	71	47	
10....	61	41	59	32	65	41	59	27	65	34	66	43	68	39	66	45	68	44	66	40	74	34	66	35	58	34	65	49
11....	73	58	70	52	75	39	74	57	80	40	80	59	79	65	77	66	79	60	78	50	74	60	76	43	68	38	77	52
12....	68	62	68	58	51	39	71	56	75	56	77	68	41	71	55	72	58	75	57	75	56	76	61	70	58	76	59	
13....	71	60	70	57	66	48	71	56	74	47	69	55	70	51	72	58	75	57	75	56	76	58	73	60	74	57		
14....	68	58	69	54	66	41	70	55	74	40	74	50	72	47	69	56	74	53	72	50	71	56	72	50	72	59		
15....	63	33	66	32	42	31	66	40	65	52	78	51	49	39	69	40	53	74	55	84	54	71	55	70	50	78	52	
16....	42	28	41	25	45	30	41	23	39	38	51	45	46	36	40	31	—	38	53	51	33	28	42	33	46	28	46	
17....	43	35	45	33	38	29	40	33	44	34	51	40	40	34	43	37	—	36	49	47	50	29	47	33	48	28	53	
18....	36	32	45	29	36	28	38	35	43	34	44	40	42	33	41	36	45	36	40	47	23	44	36	37	32	50	40	
19....	40	32	41	28	42	32	38	30	44	32	50	39	44	36	44	35	50	36	49	40	50	33	52	34	51	39		
20....	65	36	60	31	60	41	55	37	60	36	68	39	65	41	64	44	70	45	66	42	74	24	68	35	62	34	69	
21....	67	36	63	37	53	31	58	35	72	42	79	50	63	38	72	38	78	62	76	54	80	43	77	48	68	44	80	
22....	37	33	41	30	40	27	37	30	41	36	42	38	40	35	43	36	51	39	45	45	24	40	36	38	36	43	40	
23....	47	27	47	23	48	23	45	22	48	26	48	36	47	31	46	31	46	32	47	37	42	24	48	29	50	28	51	
24....	52	39	54	29	50	39	55	29	48	34	55	36	50	41	49	40	50	40	49	36	60	26	49	29	54	28	51	
25....	55	43	51	42	59	44	50	44	58	41	64	40	67	47	60	46	61	43	66	39	62	37	57	41	48	40	62	
26....	60	54	58	46	65	58	65	48	73	45	62	55	70	56	68	58	66	56	74	49	68	42	61	47	58	40	63	
27....	65	56	65	55	72	41	73	58	76	55	71	58	78	53	70	59	71	56	75	55	69	56	68	55	67	48	70	
28....	56	44	64	42	54	38	69	40	65	53	72	52	56	45	62	49	65	56	74	58	65	46	60	53	61	50	65	
29....	69	49	67	47	71	54	69	45	74	48	74	54	73	49	75	52	72	55	75	59	78	46	71	51	75	46	70	
30....	63	45	68	38	62	39	68	41	63	43	70	45	73	55	69	51	64	50	70	56	61	48	62	57	57	50	74	
31....	70	43	64	36	71	49	62	37	71	44	82	54	74	47	75	47	80	48	84	53	80	40	79	47	68	38	81	
Means....	60.2	41.5	68.1	47.5	63.5	47.2	67.3	45.5	68.0	55.2	70.0	47.2	69.3	50.4	72.7	44.8	61.7	42.5	69.1	52.7	66.4	44.2	73.7	50.3	63.8	46.1		

Date.	Mississippi—Continued.												Louisiana.													
	Kosciusko.		Natchez.		Vicksburg.		Alexandria.		Baton Rouge.		Covington.		Lafayette.		Lake Charles.		Monroe.		New Orleans.		Robeline.		Schriever.		Shreveport.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.....	55	34	64	36	62	46	65	37	66	63	70	38	68	41	69	40	39	37	72	60	50	37	55	55	68	43
2.....	41	41	59	43	56	21	42	41	57	55	53	50	50	40	32	22	69	39	28	25	37	27	43	19		
3.....	21	18	31	20	26	15	30	18	34	27	39	27	33	23	56	16	20	20	39	28	30	14	37	20	24	12
4.....	30	7	40	15	32	14	30	11	36	21	40	19	36	18	49	16	25	11	35	22	42	16	52	24	42	13
5.....	48	18	53	25	49	27	54	11	51	28	52	19	50	19	56	14	58	15	48	32	57	17	59	31	55	26
6.....	54	28	62	33	55	33	64	19	61	37	60	21	61	23	64	20	45	29	57	37	63	25	76	41	59	32
7.....	55	28	72	33	66	43	74	30	68	50	67	31	72	39	73	32	62	34	68	50	72	31	78	57	67	45
8.....	69	39	76	51	72	57	77	48	75	58	78	44	76	53	74	39	79	41	78	59	78	48	65	62	67	53
9.....	55	40	66	52	60	49	67	54	70	63	71	51	68	59	68	39	59	41	63	56	64	47	75	55	58	46
10....	63	41	75	51	71	45	70	52	75	52	68	76	50	70	58	75	54	65	54	72	58	79	47	81	57	68
11....	72	41	79	53	75	64	80	56	79	62	74	57	78	51												